FL 1000 XT

LED light generators
for use with fibre optic lighting

User manual

Mounting and installation instructions

Item no.:	0123 0050	FL 1000 XT B 3000 K
	0123 0053	FL 1000 XT B 3000 K CRI 90+
	0123 2050	FL 1000 XT B US 3000 K
	0123 2053	FL 1000 XT B US 3000 K CRI 90+
	0123 0040	FL 1000 XT B 4000 K
	0123 2040	FL 1000 XT B US 4000 K

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Roblon

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1 Introduction.

Roblon FL 1000 XT light generators are designed for use

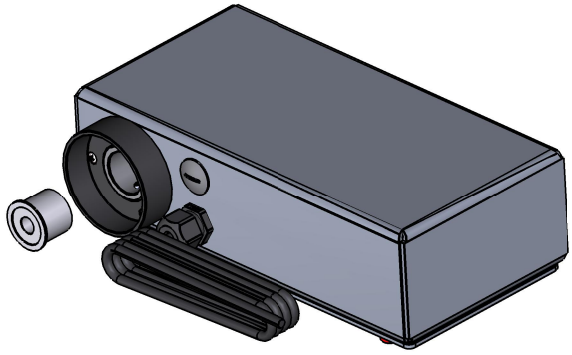
- outdoors
- with glass or PMMA fibre
- in all installation set-ups, including in closed compartments

Follow the installation instructions correctly in order to ensure

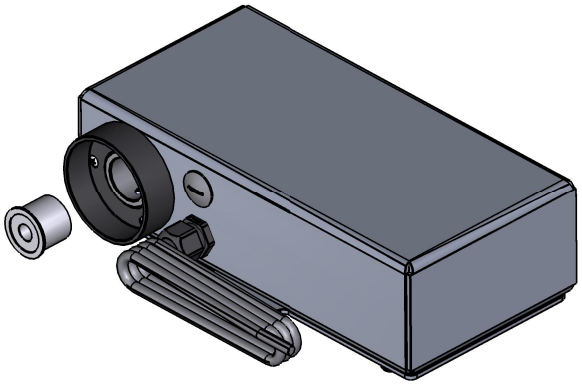
- safe operation
- enhanced functionality
- extended lifetime for components
- uninterrupted illumination

2 Product overview.

FL 1000 XT light generator
Ø28->Ø9 harness adaptor
Two Allen keys
Screws
Wall plugs
Power cord
User manual



FL 1000 XT B



FL 1000 XT B US

3 Technical data.

Light port	Ø9 or Ø28 mm
Fibre type	PMMA / Glass
Total power consumption @ 700 mA	24 W
Light source power	19.3 W
Supply voltage	220-240 V / 50-60 Hz
Supply voltage US	120-277 V / 50-60 Hz
Applied LED	LUXEON S1000 LXS8-PW30 (3,000 K) LUXEON S1000 LXS8-PW40 (4,000 K)
Light source lifetime	50,000 hours
CCT (nominal)	3,000 K
CRI8 (Ra) typical value	85
Protection rating	IP65
Driver type	Integrated electronic
Driver lifetime	50,000 hours
Dimmable	Trailing edge 1-10V [US models]
Thermal protection	Automatic decrease
Cooling system	Natural convection
Noise level	N/a
Ambient temperature	-20°C to 45°C
Material	Aluminium + POM
Dimensions (L x H x W)	298 x 193 x 95 mm
Weight	2.3 kg
Safety	CE

4 Installation.

1. Use the Allen key to loosen and remove the Ø28->Ø9 harness adaptor that is mounted in the light port.

2. For use with Ø28 harness:
   The generator is now ready for installation.
   For use with Ø9 harness:
   Place the Ø28->Ø9 harness adaptor on the harness common end.

3. Remove the plastic plug on the baseplate, directly below the light port.

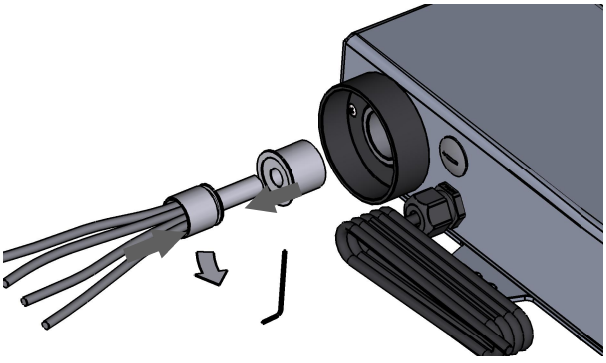
4. Insert the common end fully in the light port.

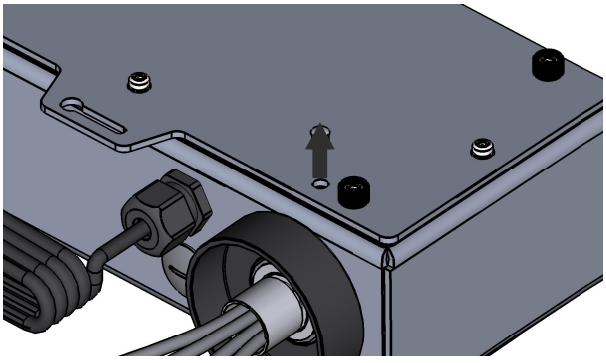
5. Tighten the screw on the base with an Allen key.

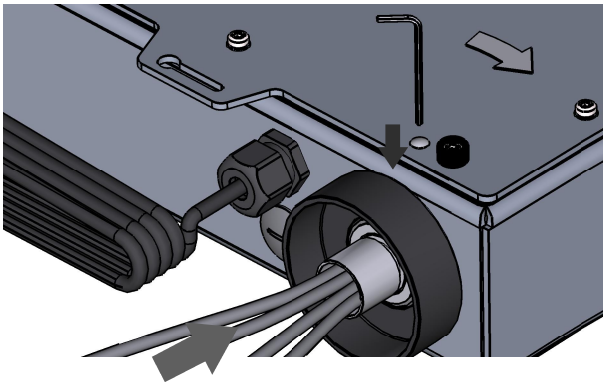
6. Insert the plastic plug.

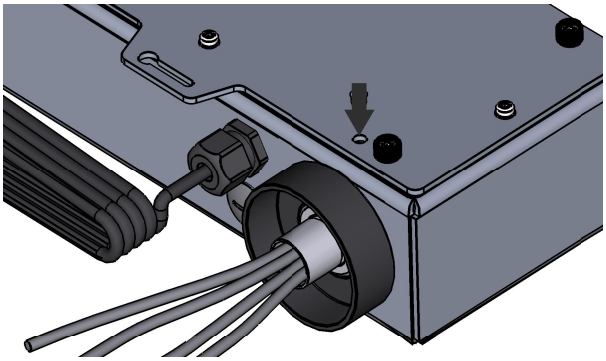
7. Ensure all installation and ventilation requirements are met.

8. Connect the power cord to the mains.





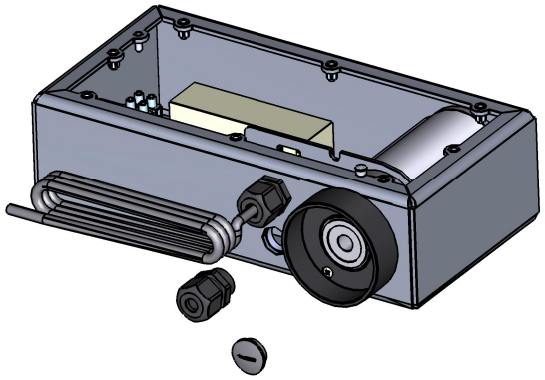




5 Dimming of 01232050.

1. Ensure the dimmer is compliant with 1-10V US models.
   [See ' Dimmer selection' guide for FL 1000 models on www. roblonlighting.com].
2. Remove the plastic plug.
3. Screw in the cable gland.
4. Guide the dimmer cable through the cable gland.
5. Use a cable tie to secure the cable's position.

2-3



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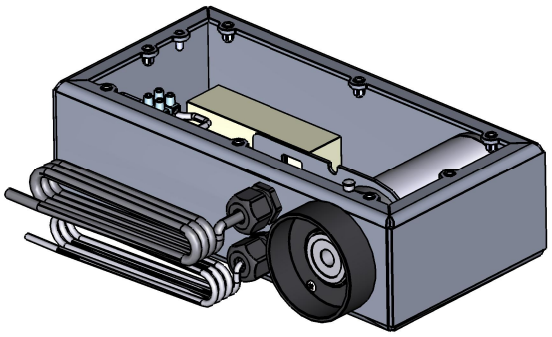

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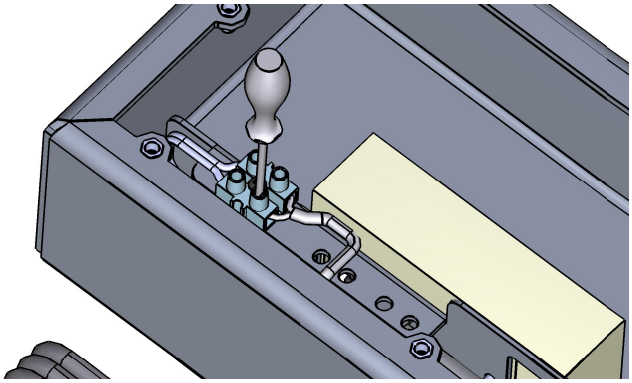
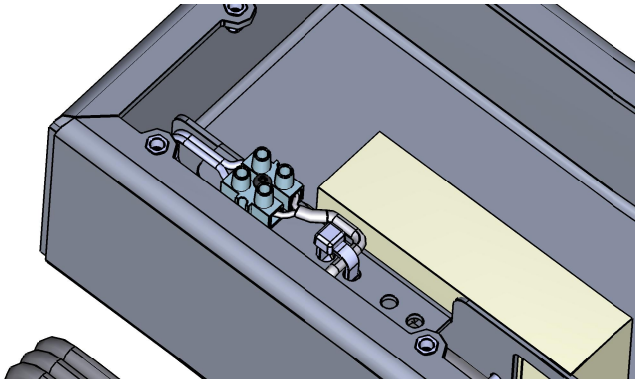


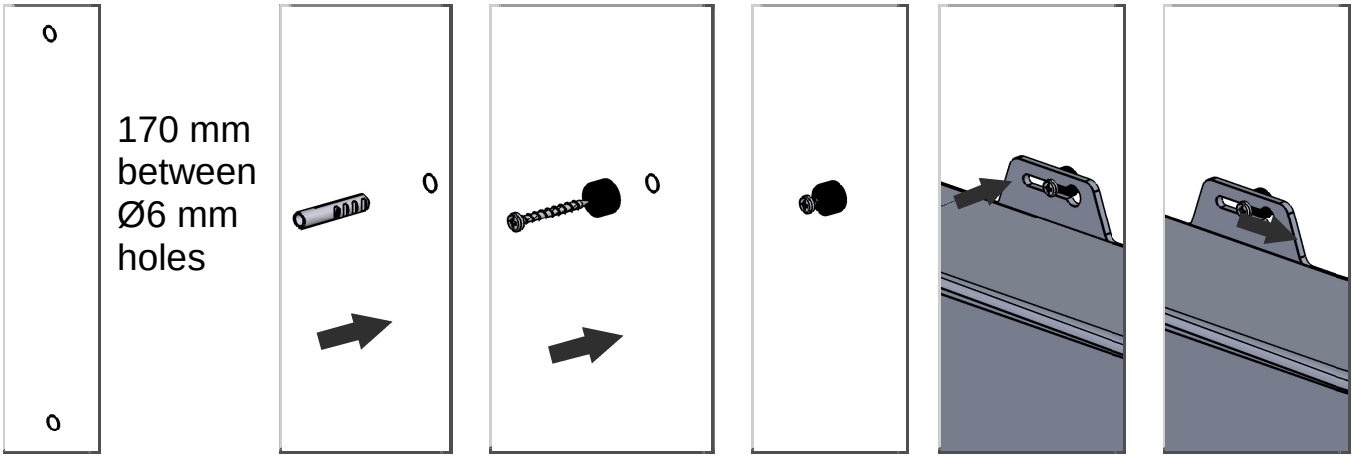


6 Mounting.

6a Surface-mounting.

1. Attach to surface using two screws in the baseplate holes.

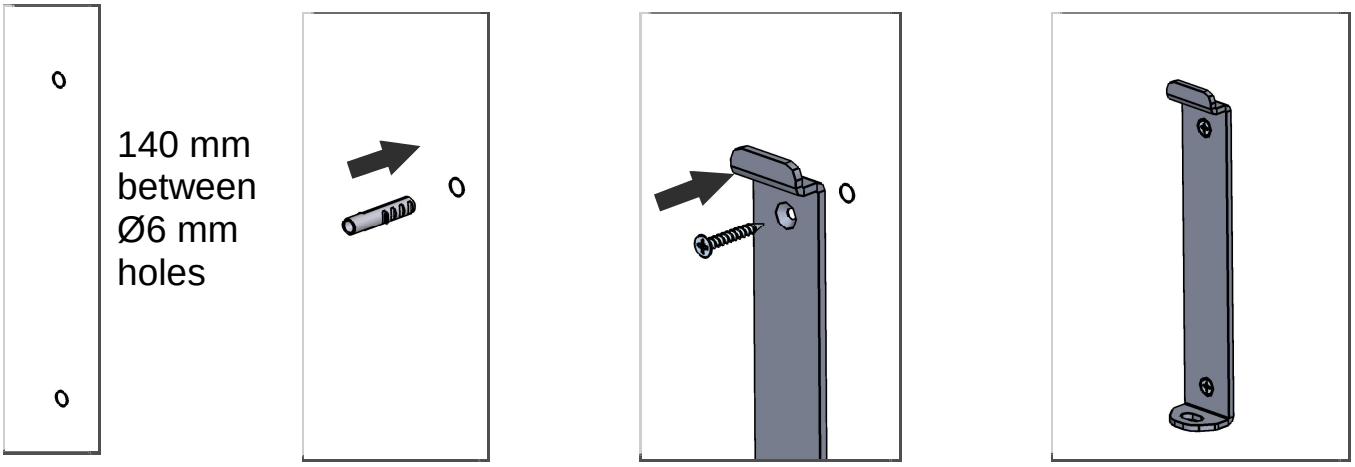
2. Vertical installation: to maintain IP 65 protection, mount with the light port facing down.



6a Bracket-mounting.

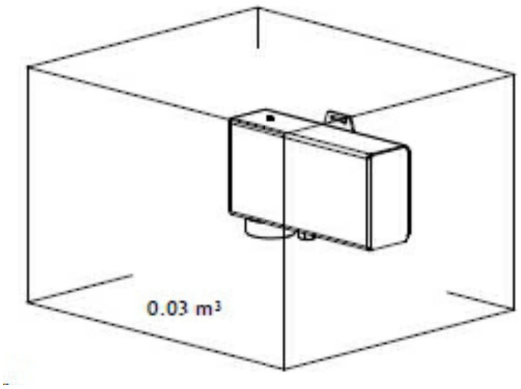
1. Attach the bracket (not supplied; see Accessories) to the surface using two screws.

2. Mount the light generator on the bracket.



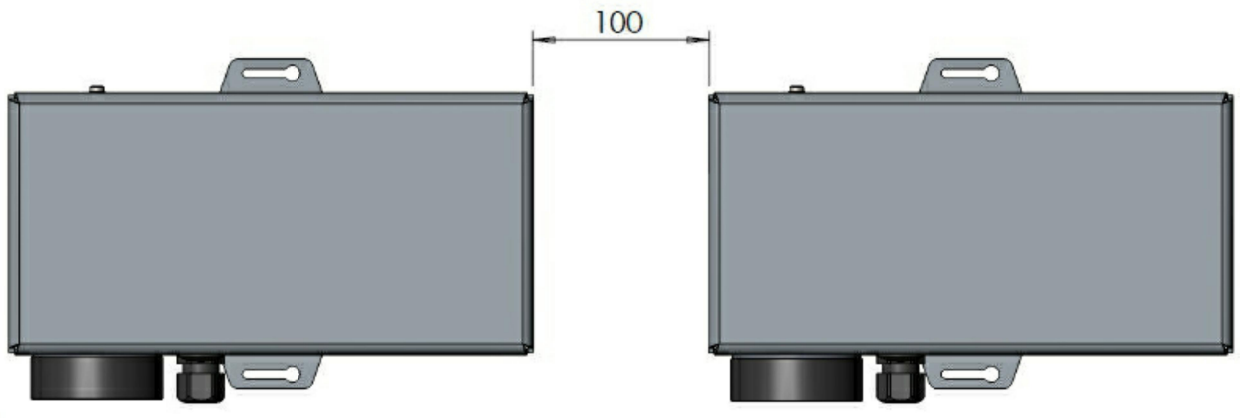
7 Installing in closed compartments.

Requirements:
Enough space to allow natural heat transmission through surfaces.
Surfaces should not be insulated.
Air volume per light generator minimum 0.03 m^3.
Ventilation holes per light generator with min. 20 cm^2 air inlet and min. 20 cm^2 air outlet.
Max. ambient temperature 45°C.



8 Installing one or more light generators.

Requirement: min. 100 mm distance between adjacent light generators in order to ensure sufficient heat transmission.

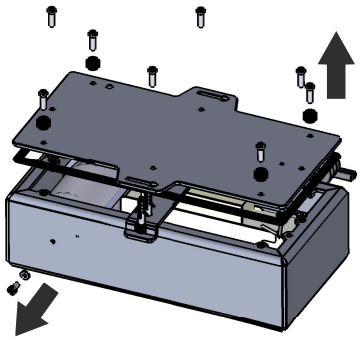


9 Mounting filters.

Colour filters (not supplied)
CTC filters (not supplied)

1. Unscrew and remove the baseplate.
2. Remove the casing screws.
3. Remove the O-ring.
4. Carefully detach and manoeuvre the assembled inner part out of the casing.
5. Unscrew the plastic front part.
6. Assemble the filter and bracket.
7. Mount the assembled filter in the detached front part.
8. Screw the front part back on.
9. Carefully insert the assembled inner part in the casing.
10. Replace the O-ring.
11. Insert the casing screws and tighten.
12. Replace the baseplate and screw in place.

1



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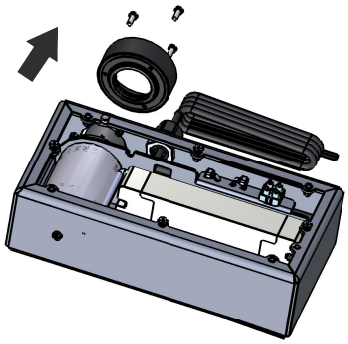

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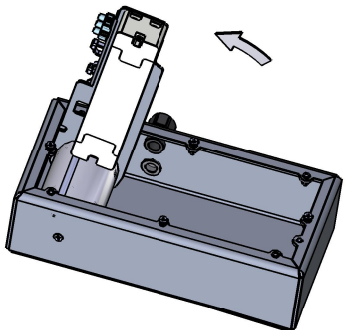

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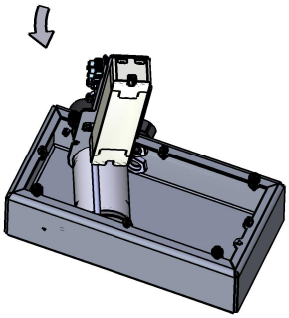

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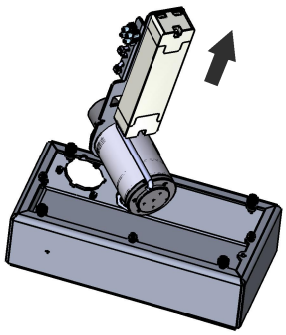

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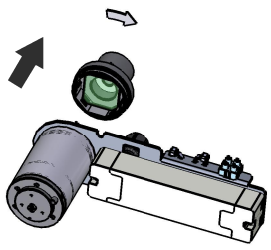

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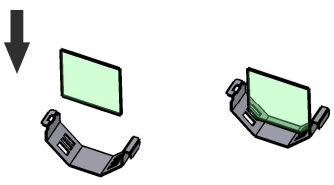

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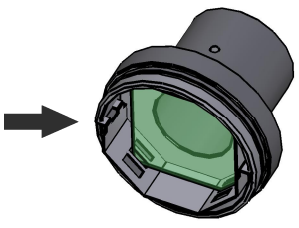

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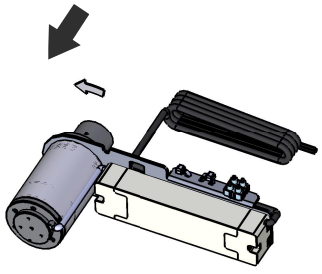
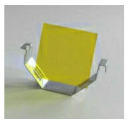
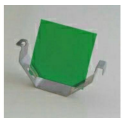
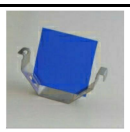


10 Spare parts.

Image	Model designation	Description	Item no.
	LED, FL 1000 XT	LED module	0129 4004
	LED, FL 1000 XT, US	LED module US models	0129 4005
	Philips 25W CC 220-240 V	Driver	0129 3000
	Philips 35W CC 120-277 V	Driver US models	0129 3001

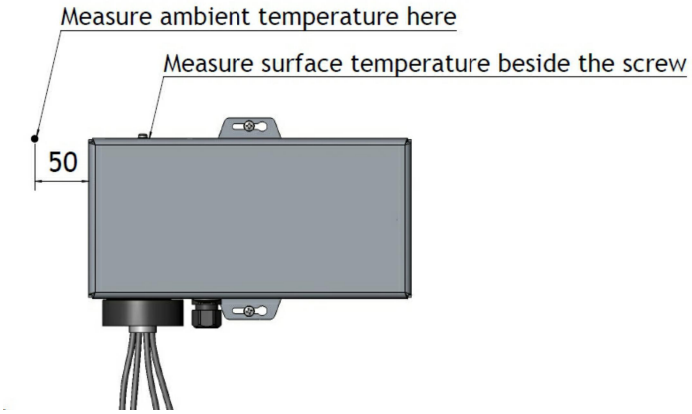
11 Accessories.

Image	Model designation	Description	Item no.
	CTC Filter A -500K	CTC filter	0126 1000
	CTC Filter A -900K	CTC filter	0126 1002
	CTC Filter A -1200K	CTC filter	0126 1001
	Colour Filter A yellow	Yellow filter	0126 1004
	Colour Filter A green	Green filter	0126 1005
	Colour Filter A blue	Blue filter	0126 1006
	Colour Filter A red	Red filter	0126 1007
	Mounting bracket	Bracket that can be padlocked	0126 7000

12 Troubleshooting.

Problem	Trace the problem	Solution
No light	Is the power on?	Turn the power on.
	Is the power cord connected properly?	Connect the power cord properly.
	Is the light generator too hot? *	Check it is installed according to the instructions. Switch generator off. Let it cool for 15 minutes. Try again.
	Is the LED working?	Replace the LED.
Light switches on and off	Is the light generator too hot? *	Check it is installed according to the instructions. Switch generator off. Let it cool for 15 minutes. Try again.
Light output has diminished	Has the light been dimmed via a dimmer switch?	Increase brightness using dimmer switch.
	Is the light generator too hot? *	Check it is installed according to the instructions. Switch generator off. Let it cool for 15 minutes. Try again.
	Is the harness common end dirty?	Clean filter with damp cloth. Dry with lint-free cloth.

* Ambient temperature: max. 45°. Measured 50 mm from light generator.
Surface temperature max. 73°. Measured beside the screw when it has been running for min. 1 hour.



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